



## Water Quality Testing for Turf Managers

In North Carolina, common water quality issues for turf management are high alkalinity, pH, sodium, chloride and iron. Irrigation water can be tested for mineral levels, alkalinity and salinity indicators through N.C.D.A. & C.S. Agronomic Services—Solutions Lab.

**When:** Irrigation water should be tested 1) annually at ~ the same time each year and 2) whenever a suspected fertility problem arises.

**How to collect an irrigation water sample:** Collect water in a clean plastic container such as a 16 oz soda or water bottle.



- Do not clean the sample bottle with detergents.
- Before sampling, run water 5 to 10 minutes and then collect water from the tap or emitter.
- Label each sample with a sample ID and fill out the **Solution** sample information form. List the appropriate irrigation water code.

### Irrigation Water

IW General  
IO Overhead  
IT Trickle



- Specify if the sample is Predictive (routine) or Diagnostic (troubleshooting).

### SAMPLE TYPE [circle one / see instructions]

Predictive (\$5)	Diagnostic (\$5)
Research (\$12)	Out of State (\$25)

- List any corresponding soil or nematode samples.

**Standard analysis** is \$5 per N.C. grower sample (\$12 for N.C. researchers; \$25 for samples originating out-of-state) and includes nitrate-nitrogen, ammonium-nitrogen, urea, phosphorus, potassium, calcium, magnesium, sulfur, iron, zinc, manganese, copper, boron, sodium, chloride, pH and electrical conductivity/soluble salts, alkalinity, hardness and sodium adsorption ratio.

**Turnaround time:** 3-4 days from receipt

### Send samples to:

#### N.C.D.A. & C.S. Agronomic Services—Solutions Section

*Mailing address (USPS):*

1040 Mail Service Center, Raleigh, NC 27699

*Physical address (UPS, FedEx):*

4300 Reedy Creek Rd, Raleigh NC 27607

Phone: (919) 733-2655

For more detailed information, visit the Solution Analysis page at [www.ncagr.gov /agronomi](http://www.ncagr.gov/agronomi) or contact the regional agronomist or extension agent for your county.